

GY-HD250U Systems Reference Manual







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Version 1.10

ProHD

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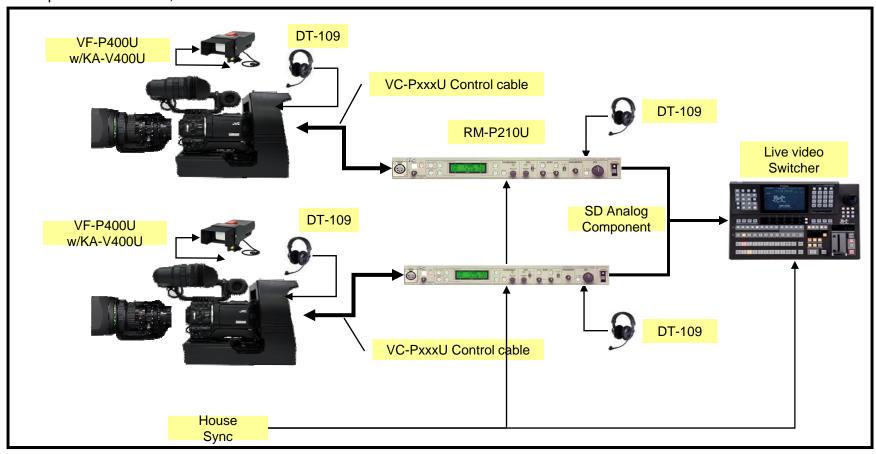
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Section I Short Length Multi Core Studio Configurations

Application

SD -production studio, Schools etc



SD System Diagram



SD Studio Key features and user benefits

- The GY-HD250U w/KA-HD250U can be used to construct an economical SD studio system that produces stunning 16:9 or 4:3 SD images.
- Investment is future proofed. Upgrading from an SD to an HD system will require changing the video interface only.
- When replacing a GY-DV550U, the original CCU the RM-P210U; the 26pin control cable and the studio viewfinder VF-P400U can continue to be used.
- When needed, the GY-HD250U can be used as an ENG camera by detaching it from the KA-HD250U.

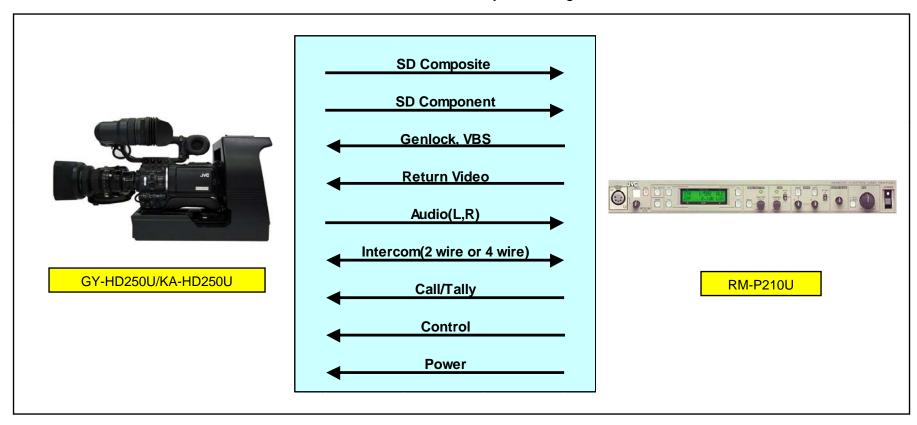


Fig. 1 Signal Flow between CCU and Camera



Additional Information

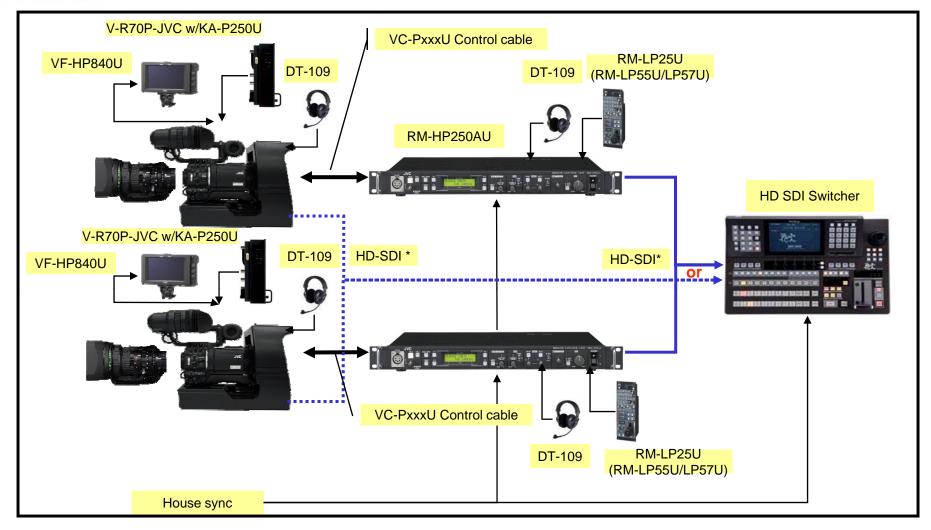
- GY-HD250U View Finder menu should be set to RGB when VF-P400U is used. All VF displays are available except focus assist
- SD CMP available only; RM-P210U can not pass full bandwidth HD Y, R-Y, B-Y.
- Genlock must be NTSC VBS only HD Tri level sync can not be passed by RM-P210U back to the GY-HD250U.
- Superimpose characters on Analog output should be turned off otherwise they will appear at RM-P210U component outputs.
- Sony 26pin Cable can be used to connect RM-P210U with the KA-HD250U.



SD System Components price list

| Model | Description | Quantity | Cost | Price | Note |
|------------------------|----------------------------------|----------|-------------|--------|------------------------|
| GY-HD250CHU | Pro HD Camcorder | 0 | \$9,995.00 | \$0.00 | without 16X lens |
| GY-HD250U | Pro HD Camcorder | 0 | \$10,995.00 | \$0.00 | With 16X Lens |
| KA-HD250U | Studio Adapter | 0 | \$3,000.00 | \$0.00 | |
| VF-P400U | 4" Viewfinder | 0 | \$875.00 | \$0.00 | |
| KA-V400U | 20-pin/6-pin Adapter | 0 | \$225.00 | \$0.00 | |
| RM-P210U | Camera Control Unit | 0 | \$1,995.00 | \$0.00 | |
| VC-P110U | Multi core Camera Cable 5M | 0 | \$480.00 | \$0.00 | Up to 100m |
| VC-P112U | Multi core Camera Cable 20M | 0 | \$1,050.00 | \$0.00 | |
| VC-P113U | Multi core Camera Cable 50M | 0 | \$1,850.00 | \$0.00 | |
| VC-P114U | Multi core Camera Cable 100M | 0 | \$3,250.00 | \$0.00 | |
| Optional Components | | | | | |
| Th 13X3.5BRM | Fujinon Wide Angle | 0 | \$7,650.00 | \$0.00 | |
| Th 17X5BRM | Fujinon Wide Angle | 0 | \$3,300.00 | \$0.00 | |
| HTs18x4.2BRM-M48 | Fujinon 18x High Quality Lens | 0 | \$10,800.00 | \$0.00 | |
| KT20x5BKRS | Canon 20x High Quality Lens | 0 | \$9,800.00 | \$0.00 | |
| HZ-FM13 | Manual Focus Control | 0 | \$685.00 | \$0.00 | Fujinon 17X, 13X,17.18 |
| HZ-FM15 | Manual Focus Control | 0 | \$685.00 | \$0.00 | Canon 20X |
| HZ FM-500 | Manual Focus Control | 0 | \$820.00 | \$0.00 | Fujinon 16X |
| HZ-ZS13U | Zoom Servo Control | 0 | \$750.00 | \$0.00 | Fujinon 16X |
| MS-11 | Zoom & Focus Kit for Fuji 18X | 0 | \$2,880.00 | \$0.00 | Fujinon |
| ACM-12 | 1/2" to 1/3" Mount Converter | 0 | \$799.00 | \$0.00 | |
| ACM-17 | 2/3" to 2/3" Mount Converter | 0 | \$799.00 | \$0.00 | |
| Total | | | | \$0.00 | |
| Third Party Components | | | | | |
| DT-109 | Headset without connecting cable | 0 | \$419.00 | \$0.00 | BeyerDynamic |
| K109.38 | DT-109 1.5m connecting cable | 0 | \$49.50 | \$0.00 | BeyerDynamic |
| Total | | | | \$0.00 | |

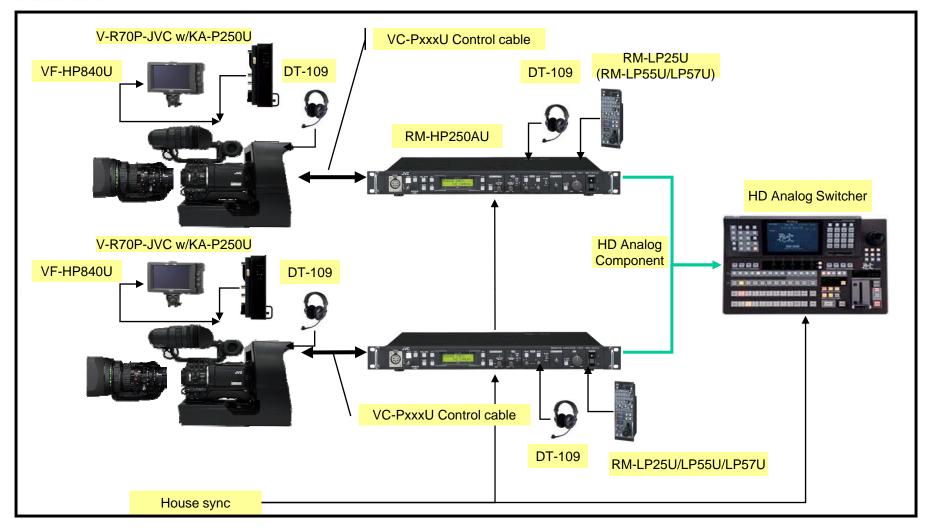




HD System Diagram with RM-HP250AU SYSTEM 1 (HD SDI)

^{*} Either the HD-SDI outputs of the RM-HP250AU derived from the HD component signal or the HD-SDI output of the GY-HD250U can be applied to the HD-SDI switcher inputs.

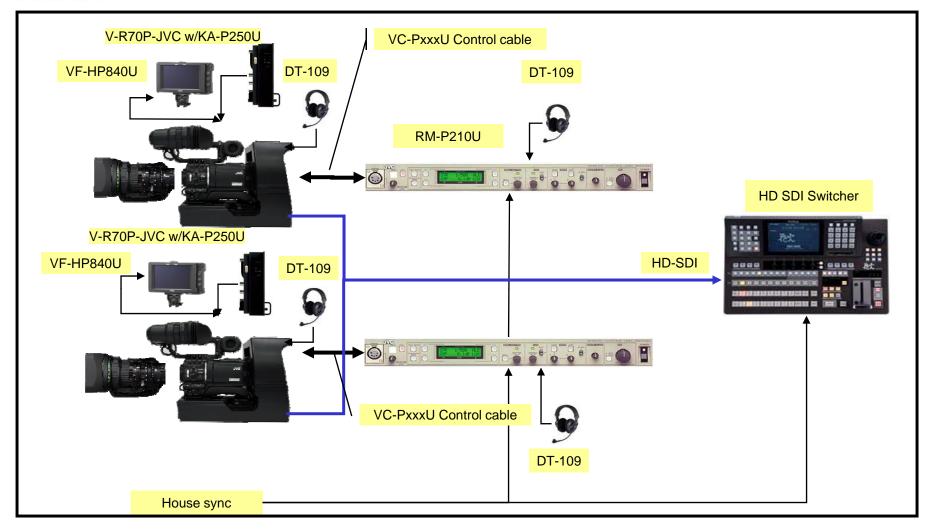




HD System Diagram with RM-HP250AU SYSTEM 2 (HD analog component)

^{*} The component HD signal output of the RM-HP250AU can be applied to a HD component analog switcher.





HD System Diagram with RM-P210U



HD Studio Key features and user benefits

- The GY-HD250U w/KA-HD250U can be used to build an economical HD studio system that produces stunning images.
- Both HD component and HD-SDI video is supported giving user flexibility of using a component switcher or a HD-SDI switcher.
- The new RM-HP250AU gives the user the flexibility of connecting an additional local remote control to the studio system.
- A live 720P or 1080i signal can be outputted depending on the user's switcher requirements.
- When replacing a GY-DV550U based studio system, the original 26pin control cable and studio viewfinder VF-P400U can continue to be used.
- Existing user's 26Pin Sony Cable can be used to connect RM-HP250AU and KA-HD250U.
- When needed, the GY-HD250U can be readily detached from the KA-HD250U(Sled) and used as an ENG camera.

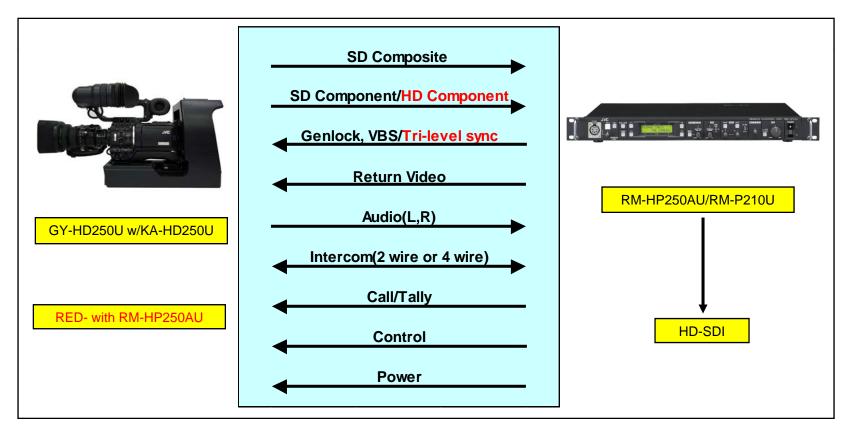


Fig 2 HD System Signal Flow between CCU and Studio Camera



Additional Information

- When using a HD Monitor(VF-HP840U or V-R70P-JVC), as a view finder and a component switcher: Turn the Analog characters. Menu setting in the GY-HD250U to OFF. Set the GY-HD250U View Finder menu to Component.
- When using a HD Monitor (V-R70P-JVC), as a view finder and a Digital switcher: Turn the Analog output superimpose characters Menu setting for the HD-SDI output on the GY-HD250U to OFF. Set the GY-HD250U View Finder menu to Component.
- If a VF-P400U is used as the view finder, set the GY-HD250U's View Finder menu to RGB. Do not turn on Superimpose characters on the HD-SDI output.
- Set GY-HD250U TALLY MENU setting to "STUDIO".



HD System components price List

| Model | Description | Quantity | Cost | Price | Note |
|--------------|-------------------------------|----------|-------------|--------|--|
| GY-HD250CHU | Pro HD Camcorder | 0 | \$9,995.00 | \$0.00 | Camcorder without lens |
| GY-HD250U | Pro HD Camcorder | 0 | \$10,995.00 | \$0.00 | With 16X lens |
| KA-HD250U | Studio Adapter | 0 | \$3,000.00 | \$0.00 | with Y cable up to 70m |
| VF-P400U | 4" SD Viewfinder | 0 | \$875.00 | \$0.00 | B & W SD VF |
| KA-V400U | 20-pin/6-pin Adapter | 0 | \$225.00 | \$0.00 | Pwr & Signal cable Availability to be determined |
| VR70P-JVC | 7" HD LCD Monitor | 0 | \$1,810.00 | \$0.00 | RGB cable + Articulated arm |
| VCY250US | Y XLR Power Cable | 0 | \$75.00 | \$0.00 | Use when 26 Pin cable is less than 70m |
| KA-P250 | Delayed power cable | 0 | \$450.00 | \$0.00 | Use when 26Pin Cable > 70m with 7" LCD Monitor |
| RM-P210U | SD Camera Control | 0 | \$1,995.00 | \$0.00 | |
| RM-HP250AU | HD Camera Control | 0 | \$3,495.00 | \$0.00 | Shipping -TBA |
| VC-P110U | Camera Cable 5M | 0 | \$480.00 | \$0.00 | |
| VC-P112U | Camera Cable 20M | 0 | \$1,050.00 | \$0.00 | |
| VC-P113U | Camera Cable 50M | 0 | \$1,850.00 | \$0.00 | |
| VC-P114U | Camera Cable 100M | 0 | \$3,250.00 | \$0.00 | |
| Options | | | | | |
| Th13X3.5BRM | Fujinon Wide Angle | 0 | \$7,650.00 | \$0.00 | |
| Th17X5BRM | Fujinon Zoom Lens | 0 | \$3,300.00 | \$0.00 | |
| HTs18x4.2BRM | Fujinon 18x High Quality Lens | 0 | \$10,800.00 | \$0.00 | |
| KT20x5BKRS | Canon 20x High Quality Lens | 0 | \$9,800.00 | \$0.00 | |
| HZ-FM15 | Manual Focus Control | 0 | \$685.00 | \$0.00 | Canon 20X |
| HZ-FM13 | Manual Focus Control | 0 | \$685.00 | \$0.00 | Fujinon 17X, 13X |
| HZ-FM500 | Manual Focus Control | 0 | \$685.00 | \$0.00 | Fujinon 16X |
| HZ-ZS13U | Zoom Servo Control | 0 | \$750.00 | \$0.00 | Fujinon 13X,16X,17X, 18X & Canon 20X |
| | | | | | |



HD System components price List(continued)

| Model | Description | Quantity | Cost | Price | Note |
|-----------------|------------------------------|----------|------------|--------|----------------------|
| MS-11 | Zoom & Focus Kit 18X | 0 | \$2,880.00 | \$0.00 | Fujinon 18x |
| ACM-12 | 1/2">1/3" Mount Converter | 0 | \$799.00 | \$0.00 | |
| ACM-17 | 1/2">2/3" Mount Converter | 0 | \$799.00 | \$0.00 | |
| RM-LP55U | Remote Control | 0 | \$815.00 | \$0.00 | |
| RM-LP57U | Remote Control | 0 | \$910.00 | \$0.00 | |
| RM-LP25U | Remote Control | 0 | \$0.00 | \$0.00 | Price & Shipping TBA |
| Total | | 0 | | \$0.00 | |
| Third Part Comp | oonents | | | | |
| DT-109 | Headset | 0 | \$419.00 | \$0.00 | Third party vendor |
| K109.38 | 1.5m DT-109 Connecting cable | 0 | \$49.50 | \$0.00 | |
| RG-59 | HD-SDI Cable | 0 | | \$0.00 | Belden, Canare |
| RG-6 | HD-SDI Cable | 0 | | \$0.00 | Belden, Canare |
| RG-11 | HD-SDI Cable | 0 | | \$0.00 | Belden, Canare |
| Total | | | | \$0.00 | |



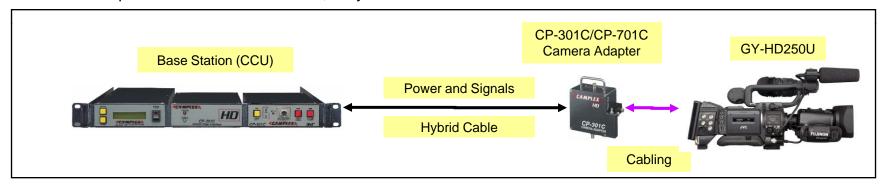
Section II Medium Length Fiber Cable Studio Configurations

Typical Applications

Medium length Fiber Cable Studio Configurations are used for EFP, Sports and Events requiring the CCU to be located more than 100m from the Camera's location. When multi-core cable lengths exceed 100m, the multi-Core cable weight becomes excessive. For lengths greater than 100m a fiber cable can be used for applications that do not need power to be delivered to the camera or a hybrid (combined fiber and copper cable) that also delivers power is used to connect the Studio Camera to the base station. Camplex and Telecast Fiber are two companies that produce systems that use either fiber or hybrid cables to connect the camera to the CCU.

CAMPLEX

CAMPLEX produces economical hybrid cable connected systems that integrate with the GY-HD250U. Their system consists of a Camera Adapter mounted on the Camera, a Hybrid Fiber Cable and a Base Station.



Camplex System Diagram

The Camera Adapter with additional cabling provides a signal interface between the camera and the Hybrid Cable.

The Hybrid cable consists of a coaxial cable whose center conductor gauge depends on the customer's power requirements and a fiber cable. Both are enclosed in a single sheath.

The Fiber cable carries the HD-SDI optical signal back to the base station where it is converted back to an electrical signal HD-SDI signal.

The center conductor in the coax carries both power and all the required signals between the Base station and the Camera adapter.



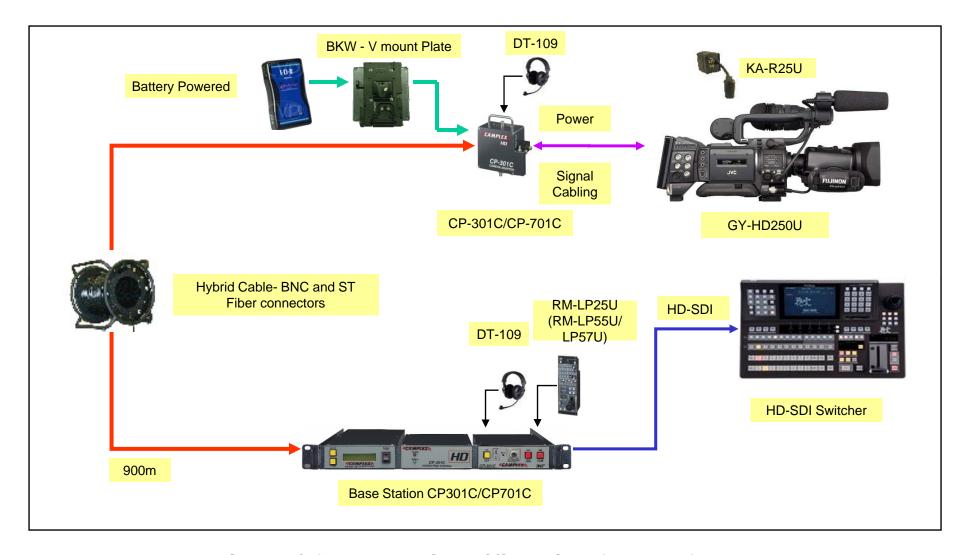
Camplex System Key features and Customer Benefit

- Complex's (CP-301C and CP-701C) systems provide an economical medium cable length (up to 900m) solution.
- Due to the camera adapter's light weight (CP301C 2lbs/CP701 -2.5 lbs) the camera can be shoulder mounted and operated for long periods of time without fatiguing the user.
- The CP-301C CCU and the CP-701C CCU primarily differ in their signal handling capabilities. The CP-701C can pass Component SD signals between the camera and the base station and has a asynchronous return video path back to the camera.

Limitations

- Maximum cable length is limited to 900m with RG11.
- The Hybrid cable becomes very heavy as the cable length increases.
- If the cable is abused, internal fiber or coax can be damaged. It is not as reliable and robust as the tactical fiber cable. In the case that the optical fiber is damaged a spare fiber that is part of the cable can be substituted.
- The CP-301C can pass an HD Tri level genlock signal, but the CP-701C can not pass an HD Tri level genlock signal.





Shoulder/Tripod mounted CP-301C/CP-701C studio system diagram



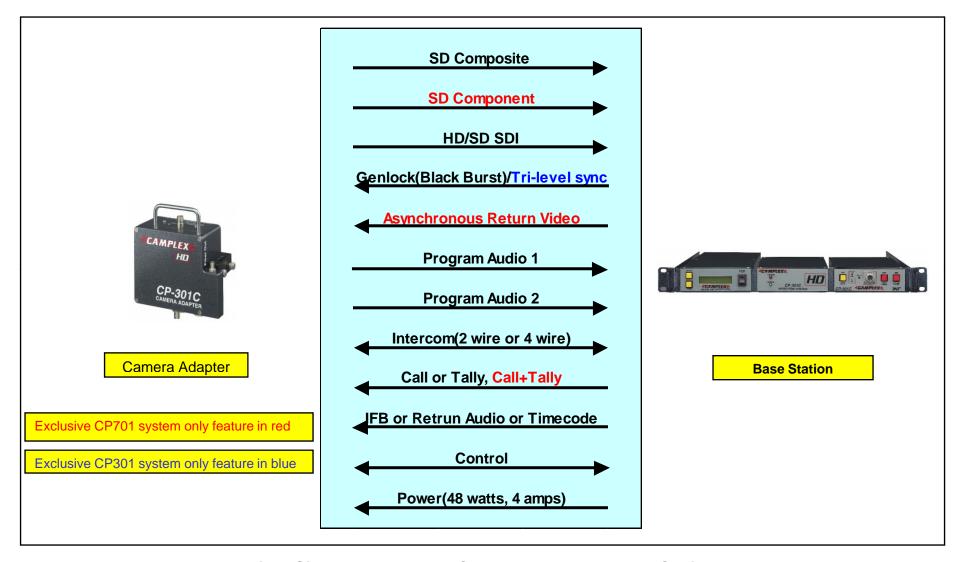


Fig 3. Signal Flow between Camera Adapter and Base Station



Shoulder/Tripod mountable studio components price list

Manual Focus Control

Zoom & Focus kit Fuji 18X lens

1/2">1/3" Mount Converter

1/2">2/3" Mount Converter

Zoom Servo Control

| Model | Description | Quantity | Cost | Price | Note |
|--------------|-------------------------------|----------|-------------|--------|------------------|
| GY-HD250CHU | Pro HD Camcorder | 0 | \$9,995.00 | \$0.00 | Without lens |
| GY-HD250U | Pro HD Camcorder | 0 | \$10,995.00 | \$0.00 | With 16X lens |
| RM-LP25U | Camera Local Remote control | 0 | \$3,995.00 | \$0.00 | |
| RM-LP55U | Camera Local Remote control | 0 | \$815.00 | \$0.00 | |
| RM-LP57U | Camera Local Remote control | 0 | \$910.00 | \$0.00 | |
| KA-R25U | Return Video Box | 0 | \$599.00 | \$0.00 | Return video box |
| Options | | | | | |
| Th13X3.5BRM | Fujinon Wide Angle lens | 0 | \$7,650.00 | \$0.00 | |
| Th17X5BRM | Fujinon Zoom Lens | 0 | \$3,300.00 | \$0.00 | |
| HTs18x4.2BRM | Fujinon 18x High Quality Lens | 0 | \$10,800.00 | \$0.00 | |
| KT20x5BKRS | Canon 20x High Quality Lens | 0 | \$9,800.00 | \$0.00 | |
| HZ-FM15U | Manual Focus Control | 0 | \$685.00 | \$0.00 | Canon 20X |
| HZ-FM13U | Manual Focus Control | 0 | \$685.00 | \$0.00 | Fujinon 13X, 17X |

\$685.00

\$750.00

\$799.00

\$799.00

\$2,880.00

\$0.00 Fujinon 16X

\$0.00 Fujinon 18x

\$0.00

\$0.00

\$0.00

\$0.00 Fujinon 13x, 16X, 17X, Canon 20X

0

0

Third party components

HZ-FM500

HZ-ZS13U

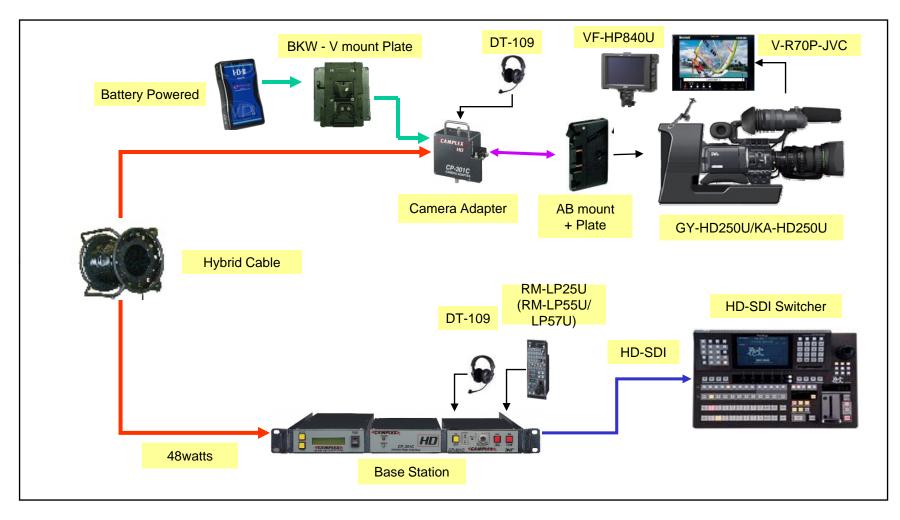
MS-11

Total

ACM-12 ACM-17

| Model | Description | # | Cost | Price | Note |
|--------------|--|---|-------------|--------|---|
| CP701 | Camera Adapter + Base station + Pwr | 0 | 13,335 | 0 | This price includes all necessary options |
| CP301C S5 | Camera Adapter + Base stationm + Pwr | 0 | \$10,134.00 | \$0.00 | This price includes all necessary options |
| CP301C S2 | Camera Adapter + Base Station + Battery Mount | 0 | \$8,984.00 | \$0.00 | For Battery powered applications |
| Hybrid cable | 2 Fibers + Coax | 0 | \$1.50 | \$0.00 | Camplex |
| | Power Surge Absorber | 0 | \$625.00 | \$0.00 | Absorbs additional current draw used |
| | Reel | 0 | \$500.00 | \$0.00 | Camplex |
| | Interface Cabling | 0 | \$425.00 | \$0.00 | Camplex Fiber \$400 to \$450 |





Sled Mounted GY-HD250U Studio System Diagram



Key Features and User Benefit

- The CP-301C/CP-701C Sled mounted configuration is an economical medium distance CCU solution.
- This configuration enables viewing and focusing the camera images on a high definition studio monitor..
- Up to 48 Watts of power is supplied to the camera and attached options at an economical price.
- GY-HD250U can be quickly detached from the Sled and used as an ENG camera.
- Flexibility of both hand held and tripod mounted operation.

Additional Information

- VF menu should be set to Component.
- In the CP-301C system, there is no separate return video signal. The return video signal, providing it is genlocked, can be applied to the CP-301C's Genlock input. On the camera side, the Genlock signal can be used simultaneously as a Genlock and a return video signal. When using the CP301C's camera adapter's Genlock signal for Genlock and for return video, the signal must be an NTSC VBS.
- Set GY-HD250U TALLY MENU setting to "STUDIO".



Sled Mounted GY-HD250U studio system price list

| Description | Quantity | Cost | Price | Note | |
|--------------------------------|----------|-------------|--------|--|--|
| Pro HD Camcorder | 0 | \$9,995.00 | \$0.00 | Without lens | |
| Pro HD Camcorder | 0 | \$10,995.00 | \$0.00 | With 16X lens | |
| Studio Adapter | 0 | \$3,000.00 | \$0.00 | | |
| SD 4" B&W monitor CRT | 0 | \$875.00 | \$0.00 | SD View Finder | |
| 20Pin to 6Pin Adapter | 0 | \$225.00 | \$0.00 | To connect VF-P400U to sled | |
| 7" HD LCD Monitor | 0 | \$1,810.00 | \$0.00 | Marshall HD Monitor | |
| 8.4" HD/SD Viewfinder | 0 | \$3,200.00 | \$0.00 | Available Jan. 2008 | |
| Y XLR Power cable | 0 | \$75.00 | \$0.00 | Distribute power to KA-HD250U and HD monitor | |
| Intermediate plate | | N.C. | \$0.00 | Call JVC branch | |
| Camera Local Remote Control | 0 | \$815.00 | \$0.00 | | |
| Camera Local Remote Control | 0 | \$910.00 | \$0.00 | | |
| Camera Local Remote Control | 0 | \$3,995.00 | \$0.00 | Price & Shipping Date: TBD | |
| | , | | | | |
| Fujinon Wide Angle | 0 | \$7,650.00 | | | |
| Fujinon Zoom Lens | 0 | \$3,300.00 | \$0.00 | | |
| Fujinon 18x High Quality Lens | 0 | \$10,800.00 | \$0.00 | | |
| Canon 20x High Quality Lens | 0 | \$9,800.00 | \$0.00 | | |
| Manual Focus Control | 0 | \$685.00 | \$0.00 | Canon 20X | |
| Manual Focus Control | 0 | \$685.00 | \$0.00 | Fujinon 13X, 17X | |
| Manual Focus Control | 0 | \$820.00 | \$0.00 | Fujinon 16X | |
| Zoom Servo Control | 0 | \$750.00 | \$0.00 | Fujinon 13X, 16X, 17X, Canon 20X | |
| Zoom & Focus kit Fuji 18X lens | 0 | \$2,880.00 | \$0.00 | Fujinon 18X | |
| 1/2">1/3" Mount Converter | 0 | \$799.00 | \$0.00 | | |
| 1/2">2/3" Mount Converter | 0 | \$799.00 | \$0.00 | | |



Sled Mounted GY-HD250U studio system price list(continued) Third party components

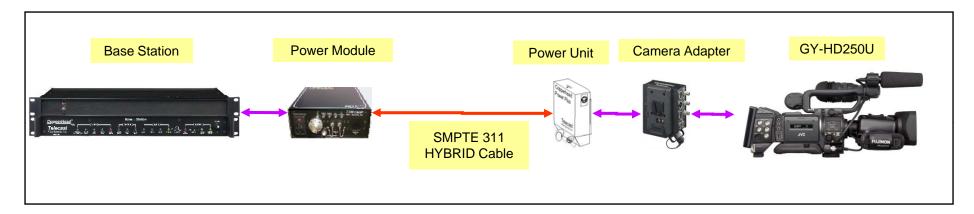
| Model | Description | Quantity | Cost | Price | Note |
|--------------|-------------------------|----------|-------------|--------|--|
| CP301C S5 | Camera System | 0 | \$10,134.00 | \$0.00 | Camera adapter +Base Station + Powerm+ Cabling |
| Hybrid cable | 2 Fibers + Coax | 0 | \$1.50 | \$0.00 | Camplex/Clark RG59 - Short cable run |
| | 2 Fibers + Coax | 0 | \$2.00 | \$0.00 | Camplex/Clark RG6 Medium cable run |
| | 2 Fibers + Coax | 0 | \$2.25 | \$0.00 | Camplex/Clark RG11 Long cable run |
| PSA-31 | Power Surge Absorber | 0 | \$625.00 | \$0.00 | Camplex Absorbs additional current draw |
| | Reel | 0 | \$500.00 | \$0.00 | Camplex |
| Q-X2 | Anton Bauer Mount plate | 0 | \$125.00 | \$0.00 | For mounting CP301C to back of sled |
| P-V | IDX Mount Plate | 0 | \$125.00 | \$0.00 | For mounting CP301C to back of sled |
| DT-109 | Head Set | 0 | \$419.00 | \$0.00 | Beyerdynamic |
| K109.38 | DT-109 Connecting cable | 0 | \$49.50 | \$0.00 | |
| Total | | 0 | | \$0.00 | |



Section III Long Length Fiber Cable connected Studio Configurations

Telecast Fiber

Telecast Fiber also produces a fiber connected CCU. Their system consists of a Camera Adapter(Copper Head), a Power Module (Power Plus) connected to the GY-HD250U; a Hybrid Fiber Cable connects the Camera adapter to the Base Station and an optional Power module. This Configuration can be operated with cable lengths of up to 2K meters



Telecast Fiber system with Power

The Camera Adapter provides a signal interface between the camera and the two fibers inside the Hybrid Cable. The Power module converts the 250V AC signal on the copper conductors inside the Hybrid cable to 12V Camera power. The two fibers within the cable handle the signal transmission between the camera and the base station.

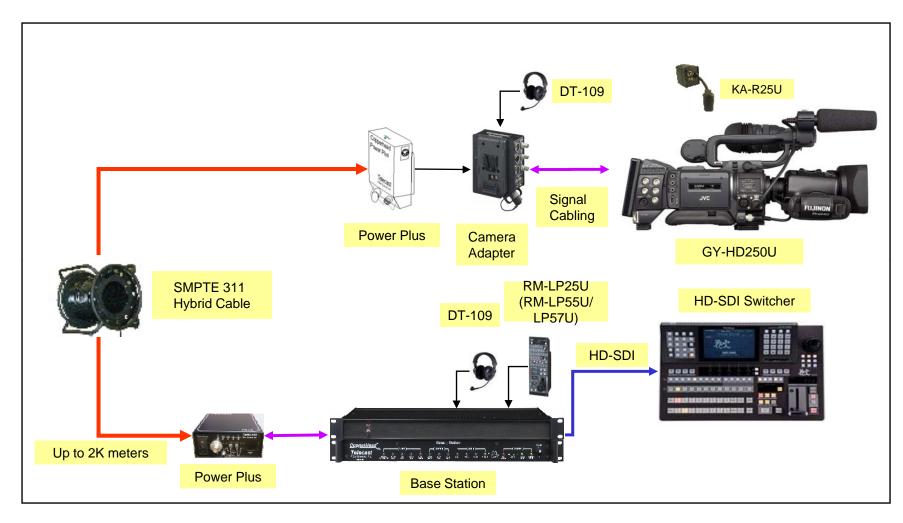
One fiber strand is dedicated to carrying the HD-SDI signal from the camera back to the base station.

The second fiber strand carries all of the other required signals between the camera adapter and the base station.

Key Features and Customer Benefit

- Up to 150Watts of power is supplied to the studio camera and attached accessories.
- Telecast Fiber system can pass a both a SD VBS or a HD Tri level sync Genlock signal.
- Flexibility of Hand held or Tripod mounted operation
- GY-HD250U can be powered and operated with cable lengths up to 2K meters.





Hand Held/w power studio system diagram



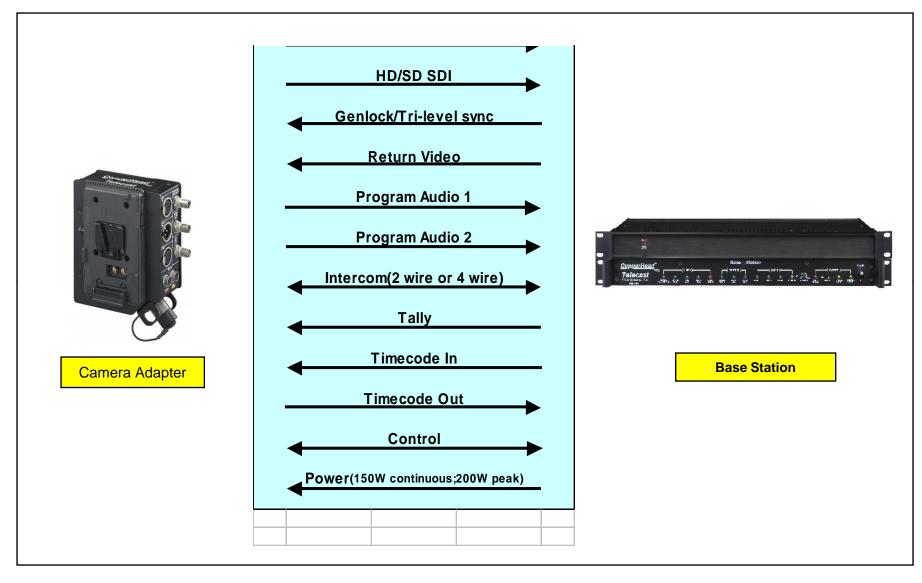


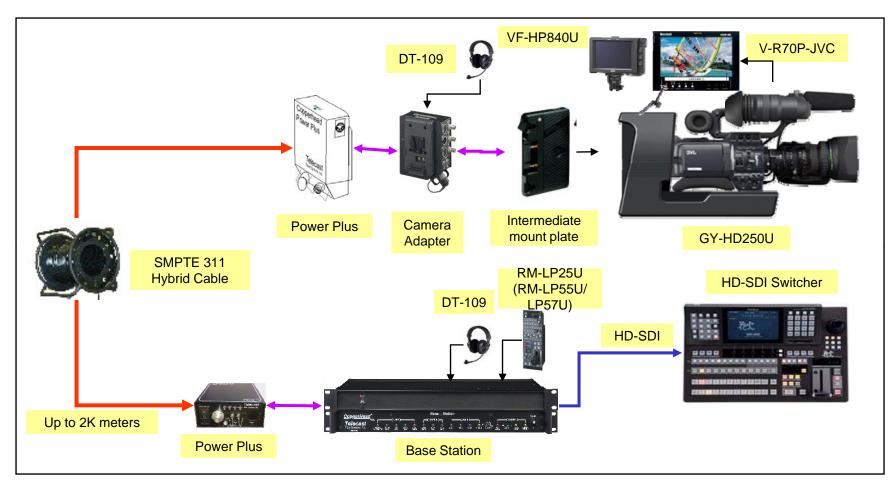
Fig 4 Signal Flow between Camera Adapter and Base Station



Hand Held/Tripod mounted with Power studio system price list

| Pro HD Camcorder | 0 | \$10,995.00 | \$0.00 | With 16X lens |
|---------------------------------|---|---|--|---|
| Camera Local Remote Control | 0 | \$815.00 | \$0.00 | |
| Camera Local Remote Control | 0 | \$910.00 | \$0.00 | |
| Camera Local Remote Control | 0 | \$3,995.00 | \$0.00 | Joystick |
| Return Video Box | 0 | \$599.00 | \$0.00 | |
| | | • | | |
| Fujinon Wide Angle | 0 | \$7,650.00 | \$0.00 | |
| Fujinon Zoom Lens | 0 | \$3,300.00 | \$0.00 | |
| Fujinon 18x High Quality Lens | 0 | \$10,800.00 | \$0.00 | |
| Canon 20x High Quality Lens | 0 | \$9,800.00 | \$0.00 | |
| Manual Focus Control | 0 | \$685.00 | \$0.00 | Canon 20X |
| Manual Focus Control | 0 | \$685.00 | \$0.00 | Fujinon 13X, 17X |
| Manual Focus Control | 0 | \$820.00 | \$0.00 | Fujinon 16X |
| Zoom Servo Control | 0 | \$750.00 | \$0.00 | Fujinon 13X, 16X, 17X, Canon 20X |
| Zoom & Focus kit Fuji 18X lens | 0 | \$2,880.00 | \$0.00 | Fujinon 18X |
| 1/2' > 1/3" Mount Converter | 0 | \$799.00 | \$0.00 | |
| 1/2">2/3" Mount Converter | 0 | \$799.00 | \$0.00 | |
| | | | \$0.00 | |
| onents | | | | |
| Camera Tx/Rx | 0 | \$15,000.00 | \$0.00 | Telecast Fiber |
| Reel | 0 | \$500.00 | \$0.00 | Telecast Fiber |
| 150 Watt supply | 0 | \$4,500.00 | \$0.00 | 150W power module at base station and at camera |
| Has 2 fibers + copper for power | 0 | \$1.45 | \$0.00 | Telecast Fiber Cost per foot |
| Additional Camera cabling | 0 | \$500.00 | | Telecast Fiber \$400 to \$600 |
| | | | \$0.00 | |
| | | | | |
| | | | | |
| | Camera Local Remote Control Camera Local Remote Control Camera Local Remote Control Return Video Box Fujinon Wide Angle Fujinon Zoom Lens Fujinon 18x High Quality Lens Canon 20x High Quality Lens Manual Focus Control Manual Focus Control Zoom Servo Control Zoom & Focus kit Fuji 18X lens 1/2' > 1/3" Mount Converter 1/2">>2/3" Mount Converter Camera Tx/Rx Reel 150 Watt supply Has 2 fibers + copper for power | Camera Local Remote Control Camera Local Remote Control Camera Local Remote Control Camera Local Remote Control Return Video Box Fujinon Wide Angle Fujinon Zoom Lens Fujinon 18x High Quality Lens Canon 20x High Quality Lens Manual Focus Control Manual Focus Control Zoom Servo Control Zoom & Focus kit Fuji 18X lens 1/2' > 1/3" Mount Converter 0 1/2">2/3" Mount Converter 0 150 Watt supply Has 2 fibers + copper for power | Camera Local Remote Control 0 \$815.00 Camera Local Remote Control 0 \$910.00 Camera Local Remote Control 0 \$3,995.00 Return Video Box 0 \$599.00 Fujinon Wide Angle 0 \$7,650.00 Fujinon Zoom Lens 0 \$3,300.00 Fujinon 18x High Quality Lens 0 \$10,800.00 Canon 20x High Quality Lens 0 \$9,800.00 Manual Focus Control 0 \$685.00 Manual Focus Control 0 \$685.00 Manual Focus Control 0 \$2,80.00 Zoom Servo Control 0 \$750.00 Zoom & Focus kit Fuji 18X lens 0 \$2,880.00 1/2' > 1/3" Mount Converter 0 \$799.00 1/2" > 2/3" Mount Converter 0 \$799.00 Onents Camera Tx/Rx 0 \$15,000.00 Has 2 fibers + copper for power 0 \$1.45 | Camera Local Remote Control 0 \$815.00 \$0.00 |





Sled Mounted/w Power studio system diagram



Telecast System Key Features and User Benefit

- Sled mounted configuration provides reliable CCU camera operation using SMPTE approved hybrid cable.
- This configuration enables viewing and precise focusing of the camera images on a high definition studio monitor..
- Up to 150Watts of continuous power and 200Watts of peak power is supplied to the camera and attached accessories.
- GY-HD250U can be quickly detached from the Sled and used as an ENG camera.

Additional Information

- VF menu should be set to Component.
- Set GY-HD250U TALLY MENU setting to "STUDIO".



Sled mounted/w power studio system components price list

| | But IID Come and an | · • | | | 0 |
|--------------|-------------------------------|-----|-------------|--------|--|
| GY-HD250CHU | Pro HD Camcorder | 0 | 70,000 | * | Camcorder without lens |
| GY-HD250U | Pro HD Camcorder | 0 | \$10,995.00 | \$0.00 | With 16X lens |
| KA-HD250U | Studio Adapter | 0 | \$3,000.00 | \$0.00 | with Y cable up to 70m |
| VF-P400U | 4" SD Viewfinder | 0 | \$875.00 | \$0.00 | B & W SD VF |
| KA-V400U | 20-pin/6-pin Adapter | 0 | \$225.00 | \$0.00 | Pwr & Signal cable Availability to be determined |
| VR70P-JVC | 7" HD LCD Monitor | 0 | \$1,810.00 | \$0.00 | RGB cable + Articulated arm |
| VF-HP840U | 8.4" HD/SD Viewfinder | 0 | \$3,200.00 | \$0.00 | Available Jan. 2008 |
| VCY250US | Y XLR Power Cable | 0 | \$75.00 | \$0.00 | Use when 26 Pin cable is less than 70m |
| RM-LP55U | Camera Local Remote Control | 0 | \$815.00 | \$0.00 | |
| RM-LP57U | Camera Local Remote Control | 0 | \$910.00 | \$0.00 | |
| RM-LP25U | Camera Local Remote Control | 0 | \$3,995.00 | \$0.00 | Price: TBD |
| KA-BP250 | Intermediate Plate | 0 | N.C. | \$0.00 | Call JVC branch |
| Options | | | | | |
| Th13X3.5BRM | Fujinon Wide Angle | 0 | \$7,650.00 | \$0.00 | |
| Th17X5BRM | Fujinon Zoom Lens | 0 | \$3,300.00 | \$0.00 | |
| HTs18x4.2BRM | Fujinon 18x High Quality Lens | 0 | \$10,800.00 | \$0.00 | |
| KT20x5BKRS | Canon 20x High Quality Lens | 0 | \$9,800.00 | \$0.00 | |
| HZ-FM15 | Manual Focus Control | 0 | \$685.00 | \$0.00 | Canon 20X |
| HZ-FM13 | Manual Focus Control | 0 | \$685.00 | \$0.00 | Fujinon 17X, 13X |
| HZ-FM500 | Manual Focus Control | 0 | \$685.00 | \$0.00 | Fujinon 16X |
| MS-11 | Zoom & Focus Kit 18X | 0 | \$2,880.00 | \$0.00 | Fujinon |
| ACM-12 | 1/2">1/3" Mount Converter | 0 | \$799.00 | \$0.00 | |
| ACM-17 | 2/3">1/3" Mount Converter | 0 | \$799.00 | \$0.00 | |



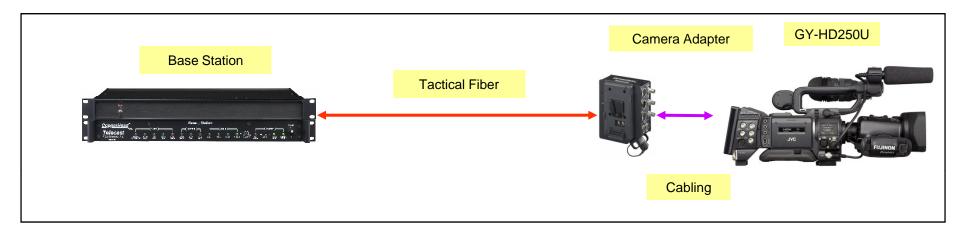
Sled mounted/w power studio system components price list(continued) Third Party Components

| Model | Description | Quantity | Cost | Price | Note |
|------------------|---------------------------------|----------|-------------|--------|--|
| Copperhead | Camera adapter + base station | 0 | \$15,000.00 | \$0.00 | |
| | Reel | 0 | \$500.00 | \$0.00 | |
| Power Plus | 150 Watt supply | 0 | \$4,500.00 | \$0.00 | power module at base station and at camera |
| SYMPTE Hybrid ca | Has 2 fibers + copper for power | 0 | \$1.45 | \$0.00 | Cost per foot |
| | Camera cabling | 0 | \$500.00 | \$0.00 | \$400 to \$600 Telecast Fiber |
| Q-X2 | Anton Bauer Plate | 0 | \$125.00 | \$0.00 | For Mounting Copperhead |
| P-V | IDX Mount plate | 0 | \$125.00 | \$0.00 | For Mounting Copperhead |
| DT-109 | Head Set | 0 | \$419.00 | \$0.00 | Beyerdynamic |
| K109.38 | 1.5m DT-109 Connecting cable | 0 | \$49.50 | \$0.00 | |
| MS-11 | Zoom & Focus kit Fujinon 18X | 0 | \$2,880.00 | \$0.00 | Fujinon 18X |
| Total | | | | \$0.00 | |



Telecast Fiber CCU locally Power

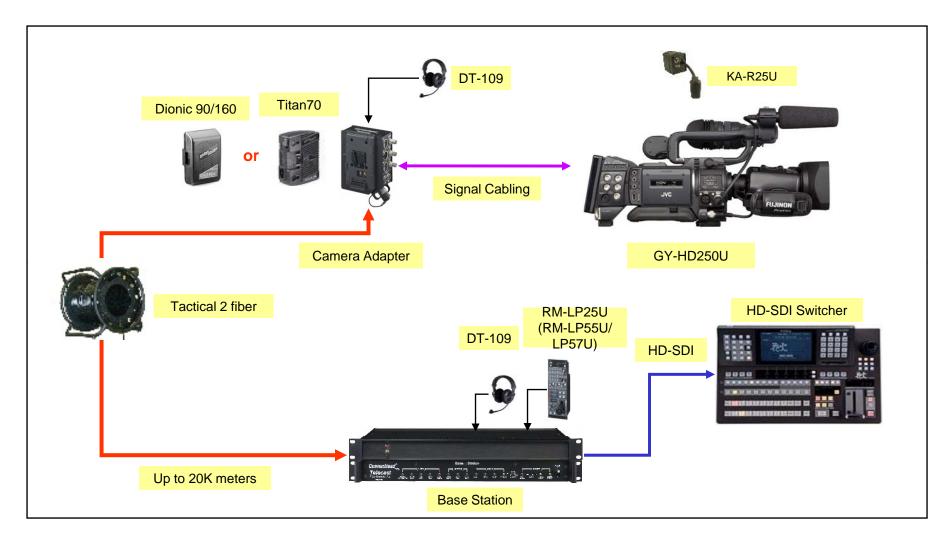
For applications requiring light weight and long cable lengths of up to 20K meters, Telecast Fiber's Camera Adapter (Copper Head) can be connected to the base station via two Tactical fibers. Power to the camera can be supplied via a battery, an off-board four-pin XLR power supply or on-board AC Power supply.



Extremely long length Telecast Fiber Studio System

There are two fibers contained within the Tactical fiber cable. One fiber is used to carry the HD-SDI signal between the camera and the Base station. The second fiber carries all of the other required signals between the Camera Adapter and the Base station. Power must be supplied either locally or via an attached battery. One fiber contains the HD-SDI signal. The second fiber contains all of the other required signals.





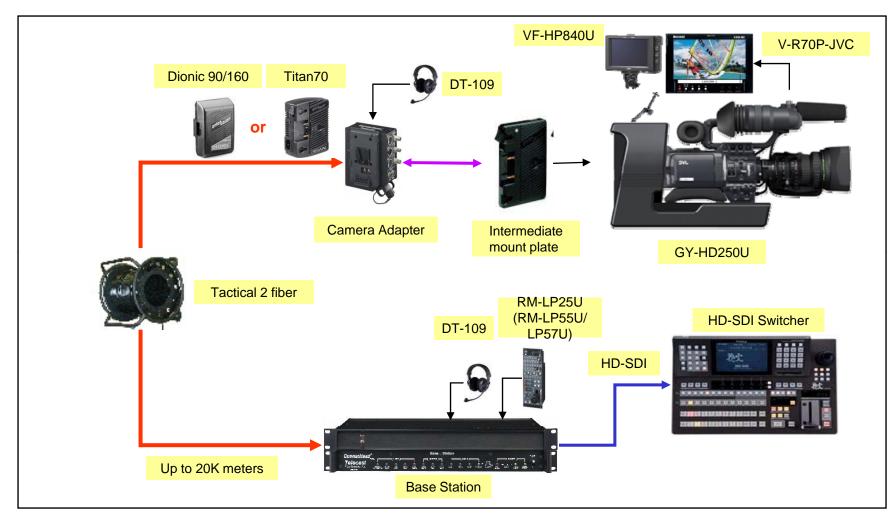
Hand Held battery powered studio system diagram



Hand Held battery powered studio system components price list

| GY-HD250CHU | Pro HD Camcorder | 0 | \$9,995.00 | \$0.00 | Without lens |
|------------------|--------------------------------|---|-------------|--------|------------------------------------|
| GY-HD250U | Pro HD Camcorder | 0 | \$10,995.00 | \$0.00 | With 16X lens |
| RM-LP55U | Camera Local Remote Control | 0 | \$815.00 | \$0.00 | |
| RM-LP57U | Camera Local Remote Control | 0 | \$910.00 | \$0.00 | |
| RM-LP25U | Camera Local Remote Control | 0 | \$3,995.00 | \$0.00 | |
| KA-R25U | Return Video Box | 0 | \$599.00 | \$0.00 | |
| Options | | | | | |
| Th13X3.5BRM | Fujinon Wide Angle | 0 | \$7,650.00 | \$0.00 | |
| Th17X5BRM | Fujinon Zoom Lens | 0 | \$3,300.00 | \$0.00 | |
| HTs18x4.2BRM | Fujinon 18x High Quality Lens | 0 | \$10,800.00 | \$0.00 | |
| KT20x5BKRS | Canon 20x High Quality Lens | 0 | \$9,800.00 | \$0.00 | |
| HZ-FM15U | Manual Focus Control | 0 | \$685.00 | \$0.00 | Canon 20X |
| HZ-FM1U3 | Manual Focus Control | 0 | \$685.00 | \$0.00 | Fujinon 13X, 17X |
| HZ-FM500 | Manual Focus Control | 0 | \$820.00 | \$0.00 | Fujinon 16X |
| HZ-ZS13BU | Zoom Servo Control | 0 | \$750.00 | \$0.00 | Fujinon 13X, 16X, 17X, Canon 20X |
| MS-11 | Zoom & Focus kit Fuji 18X lens | 0 | \$2,880.00 | \$0.00 | Fujinon 18X |
| ACM-12 | 1/2">1/3" Mount Converter | 0 | \$799.00 | \$0.00 | |
| ACM-17 | 2/3">1/3" Mount Converter | 0 | \$799.00 | \$0.00 | |
| Total | | | | \$0.00 | |
| Third Party Comp | onents | | | • | |
| Copperhead | Camera Adapter + Base station | 0 | \$15,000.00 | \$0.00 | Telecast Fiber |
| Tactical Fiber 2 | 2 fibers in cable | 0 | \$1.35 | \$0.00 | Telecast Fiber cost per foot |
| | Reel | 0 | \$500.00 | \$0.00 | Telecast Fiber |
| | Hermaphrodite connectors | 0 | \$500.00 | \$0.00 | Telecast Fiber Need two per system |
| | Camera cabling | 0 | \$500.00 | | Telecast Fiber \$400 to \$600 |
| Total | | | | \$0.00 | |





Sled Mounted with battery or off board of on board AC power studio system diagram



Sled Mounted with battery power studio system components price list

| Model | Description | Quantity | Cost | Price | Note |
|-----------------|-------------------------------|----------|-------------|--------|----------------------------------|
| GY-HD250CHU | Pro HD Camcorder | 0 | \$9,995.00 | \$0.00 | Without lens |
| GY-HD250U | Pro HD Camcorder | 0 | \$10,995.00 | \$0.00 | With 16X lens |
| KA-HD250U | Studio Adapter | 0 | \$3,000.00 | \$0.00 | |
| VRP70-JVC | 7" HD LCD Monitor | 0 | \$1,810.00 | \$0.00 | |
| VF-HP840U | 8.4" HD/SD Viewfinder | 0 | \$3,200.00 | \$0.00 | Available Jan. 2008 |
| VCY250US | Y XLR power cable | 0 | \$75.00 | \$0.00 | Distribute pwr to Sled + Monitor |
| RM-LP55U | Camera Local Remote Control | 0 | \$815.00 | \$0.00 | |
| RM-LP57U | Camera Local Remote Control | 0 | \$910.00 | \$0.00 | |
| RM-LP25U | Camera Local Remote Control | 0 | \$3,995.00 | \$0.00 | Price:TBD |
| KA-BP250 | Intermediate plate | 0 | N.C. | \$0.00 | Call JVC branch |
| Options | | | | | |
| Th13X3.5BRM | Fujinon Wide Angle | 0 | \$7,650.00 | \$0.00 | |
| Th17X5BRM | Fujinon Zoom Lens | 0 | \$3,300.00 | \$0.00 | |
| HTs18x4.2BRM-M4 | Fujinon 18x High Quality Lens | 0 | \$10,800.00 | \$0.00 | |
| KT20x5BKRS | Canon 20x High Quality Lens | 0 | \$9,800.00 | \$0.00 | |
| HZ-FM15U | Manual Focus Control | 0 | \$685.00 | \$0.00 | Canon 20X |
| HZ-FM13U | Manual Focus Control | 0 | \$685.00 | \$0.00 | Fujinon 13X, 17X |
| HZ-FM500 | Manual Focus Control | 0 | \$820.00 | \$0.00 | Fujinon 16X |
| HZ-ZS13BU | Zoom Servo Control | 0 | \$750.00 | \$0.00 | Fujinon 13X, 16X, 17X, Canon 20X |
| MS-11 | Zoom & Focus kit Fujinon 18X | 0 | \$2,880.00 | | Fujinon 18X |
| ACM-12 | 1/2">1/3" Mount Converter | 0 | \$799.00 | \$0.00 | |
| ACM-17 | 2/3">1/3" Mount Converter | 0 | \$799.00 | \$0.00 | |



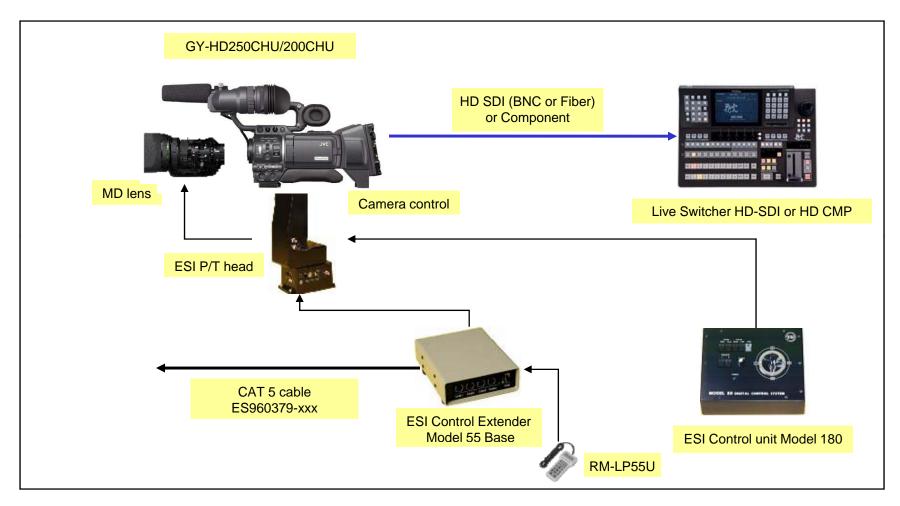
Sled Mounted with battery power studio system components price list

Third Party Components

| Model | Description | Quantity | Cost | Price | Note |
|------------------|-------------------------------|----------|-------------|--------|-------------------------------|
| Copperhead | Camera adapter + base station | 0 | \$15,000.00 | \$0.00 | |
| Tactical Fiber 2 | 2 fibers incable \$1.5/ft | 0 | \$1.35 | \$0.00 | cost per foot |
| | Reel | 0 | \$500.00 | \$0.00 | |
| | Hermaphrodite connectors | 0 | \$500.00 | \$0.00 | Need two per system |
| | Camera cabling | 0 | \$500.00 | \$0.00 | \$400 to \$600 Telecast Fiber |
| Q-X2 | Anton Bauer Plate | 0 | \$125.00 | \$0.00 | For Mounting Copperhead |
| P-V | IDX Mount plate | 0 | \$125.00 | \$0.00 | For Mounting Copperhead |
| DT-109 | Head Set | 0 | \$419.00 | \$0.00 | Beyerdynamic |
| K109.38 | 1.5m DT-109 Connecting cable | 0 | \$49.50 | \$0.00 | |
| Total | | | | \$0.00 | |



Section IV POV System configuration



POV Pan/Tilt System



Key features and user benefits

- Affordable HD POV pan tilt system replacement for the SD POV KY-560U system. If user is converting form a SD Pan Tilt system some of the existing components such as Pan/Tilt controller, cables, power supplies, etc. can be reused.
- A live 1080i or 720P60 HD-SDI or HD Component signal can be outputted and applied to the switcher.
- Cameras can be controlled from up to 2000 ft.
- When needed the GY-HD250U/GY-HD200U can be easily used as an ENG camera by detaching it from the Pan/Tilt head.
- Upon request ESI can supply camera power to the camera from the Pan/Tilt head.

POV System Components Price List

| Model | Description | Quantity | Cost | Price | Note |
|-------------------|----------------------------|----------|------------|-------|---|
| GY-HD250CH | Pro HD Camcorder | 0 | \$9,995.00 | 0 | Camcorder head |
| GY-HD200CHU | Pro HD Camcorder | | \$7,995.00 | 0 | |
| Th17x5BMDU | Fujinon 17x MD Lens | 0 | \$4,000.00 | 0 | Motorized Lens |
| RM-LP55U | Local Remote Control Unit | 0 | \$815.00 | 0 | Remote control |
| Options | | | | | |
| ACM-12 | 1/2">1/3" Mount Converter | 0 | \$799.00 | 0 | |
| ACM-17 | 1/2">2/3" Mount Converter | 0 | \$799.00 | 0 | |
| Total | | | | 0 | |
| Third Party Compo | nents | | | | |
| DPT130 | Pan/Tilt Head | 0 | \$5,735.00 | 0 | from ESI |
| Model 180 | Pan/Tilt Controller | 0 | \$3,950.00 | 0 | Controls up to 4 P/T heads |
| ES960379-xxx | CAT5 cable (RS-422 Cable) | 0 | \$2.15 | 0 | price per foot of cable ESI |
| IA60a | IDX Battery Charger/Supply | 0 | \$395.00 | 0 | for GY-HD200/250 |
| Model 55 Base | Base Unit | | \$1,020.00 | 0 | ESI Camera remote control extender – extends up to 4 RM-LP55U |
| Model 55 Cam unit | RS-422 to RS232C Converter | 0 | \$305.00 | 0 | One for each camera in system. |
| Total | | | | 0 | |



Section V Supplementary Information

VF Signal Menu

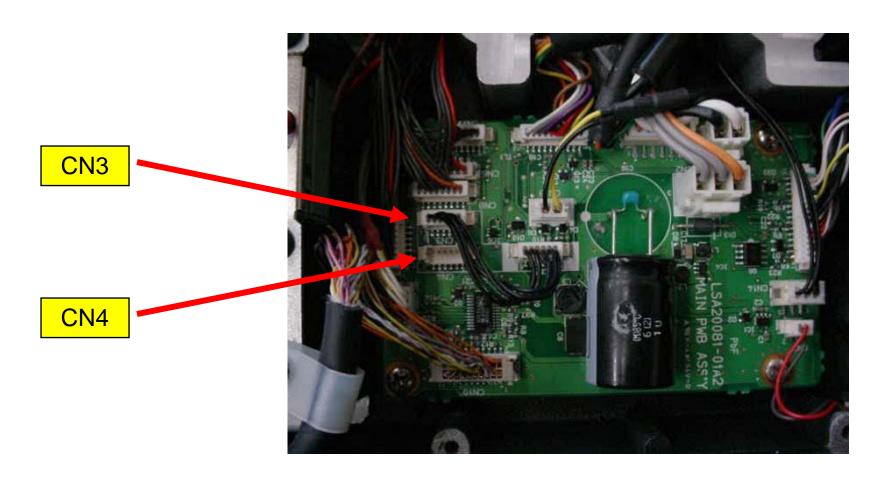


| Mode | VF Signal | Y, Pr, Pb | 20-Pin out | Eng VF | |
|------|--------------|-------------------|------------------|------------------|--|
| | RGB | Y, Pr, Pb 720p60 | RGB 480i | OK | |
| HDV | CPS | No Output | CPS 480i | No visible video | |
| пυν | CMP | Y, Pr , Pb 720p60 | Y, Pr, Pb 720p60 | No visible video | |
| | Y | No Output | Y 480i | No visible video | |
| DV | RGB | Y, Pr, Pb 480i | RGB | ОК | |
| | CPS | No output | CPS | No visible video | |
| | CMP | Y, Pr, Pb 480i | Y, Pr, Pb 480i | No visible video | |
| | Y | No output | Y 480i | No visible video | |



How to use Sony 26Pin Cable with KA-HD250U

- 1. Disconnect the CABLE from the CN3 on the KA-HD250U's MAIN board *.
- 2. Reconnect cable to CN4 on the MAIN board.
- * See service manual for disassembly instructions





How to use Sony 26Pin cable with RM-P210U

1- Setup for Sony Cable

Remove the top-cover and change the setting of S35 & S36 dip-switch blocks located on the 26-pin connector board.

- (a) S35: All switches must be set UP.
- (b) S36: All switches must be set DOWN.

2- Adjustment

Re-adjustment of the transmit Voltage (refer to SM).

- (a) VOLT ADJ 15V: adjust to 15VDC +/- 0.2V
- (b) VOLT ADJ 17V: adjust to 16VDC +/- 0.2V
- (c) VOLT ADJ 19V: adjust to 16VDC +/- 0.2V

Note 1: If the Voltage is not correct, the viewfinder may be damaged due to over heating.

Note 2: Receive Voltage at pin-A and pin-B of the 26-pin **MUST** be lower than 15V. If the voltage exceeds 15VDC, adjustment of (a) "VOLT ADJ 17V" and (b) "VOLT ADJ 19V" must be re-adjusted from 16VDC to 15VDC.

GY-HD250U/KA-HD250U and JVC CCUs Power connectivity table

| | | RM-P210U | | RM-P200U | | RM-P300U | |
|---------------|-----------|----------|----------|----------|----------|----------|----------|
| | | VF-P400 | VF-P550B | VF-P400 | VF-P550B | VF-P400 | VF-P550B |
| 20m(VC-P112) | Operation | ок | ОК | NG | NG | ок | ок |
| 50m(VC-P113) | Operation | ок | ОК | NG | NG | ок | ок |
| 100m(VC-P114) | Operation | ок | ОК | NG | NG | NG | NG |

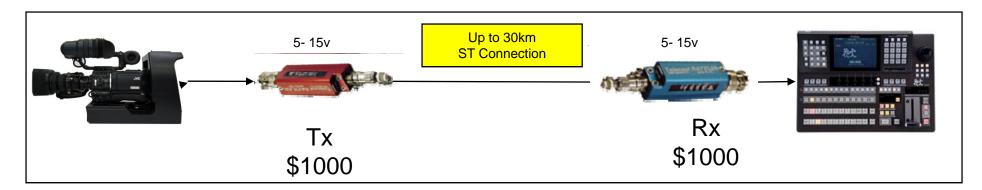


HD-SDI Cable Lengths

| HD-SDI BNC Cable | Distance (m) | Distance (ft) |
|------------------|--------------|---------------|
| RG-11 | 150 | 500 |
| RG-7 | 125 | 400 |
| RG-6 | 100 | 330 |
| RG-59 | 80 | 260 |

Telecast Fiber Rattler - Fiber Tx/Rx

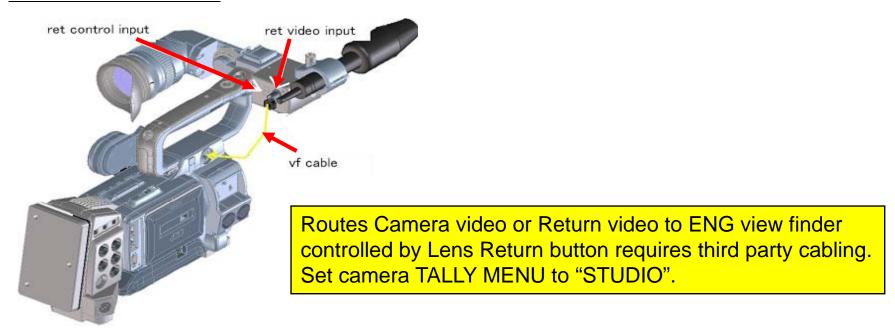
The rattler Tx and Rx converts a electrical digital signal to an optical signal at the Tx end and from a optical signal to a digital signal at the Rx end. It is used to extend the transmission distance of a HD/SD SDI signal up to 30K meters





Section VI Accessories

KA-R25U Return Video Box

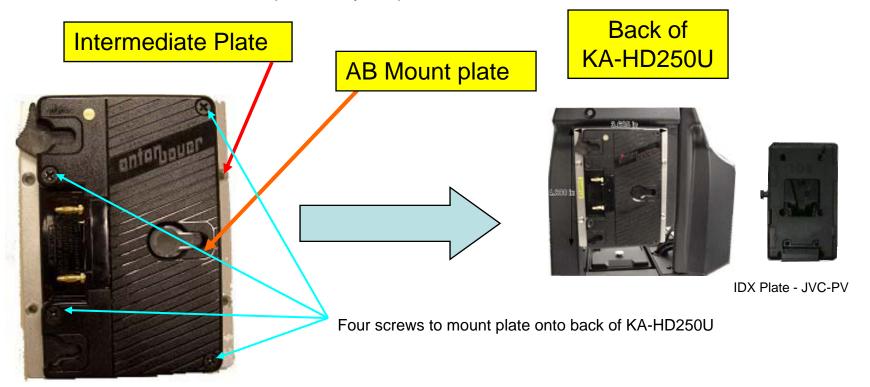


Return Video Box





KA-BP250 Intermediate Plate (handled by JPC)



The intermediate plate mounts on the back of the KA-HD250U. To this plate either an Anton Bauer of an IDX mount plate can be attached. The Camplex or Telecast Fiber Camera adapter can then be attached to the KA-HD250U.

- · Enables mounting an Anton Bauer or IDX Mount on the back of the KA-HD250U
- AB Mount plate: QX2
- · IDX Mount plate: JVC-PV
- · Intermediate Plate Part TBD

CONTACT: JVC Professional for availability of plate.



HD 1/3"mount bayonet lenses

| Model | Focal Length mm | Angle of View | Filter Screw | IRIS Range |
|-------------------------|--------------------|---------------|--------------|------------|
| Th13X3.5BRM Fujinon | 3.5-46 | 74º - 6.3º | 82mmx0.75mm | F1.4 – F16 |
| Th16X5.5BRM Fujinon | 5.5-88 | 51º - 3.2º | 82mmx0.75mm | F1.4 – F16 |
| Th17X5BRM Fujinon | 5.0-85 | 55º - 3.3º | 82mmx0.75mm | F1.4 – F16 |
| Th17X5BRD Fujinon | 5.0-85 | 55º - 3.3º | 82mmx0.75mm | F1.4 – F16 |
| HTs18X4.2BRM Fujinon | 4.2-76 | 63° - 4.0° | 82mmx0.75mm | F1.4 – F16 |
| KT20X5KRS Canon | 5.0-100 | 52º - 2.8º | 82mmx0.75mm | F1.4 – F16 |



V-R70P-JVC Marshall 7" LCD Studio Monitor (USA exclusive model)

- HD/SD Compatible
- § 800H x 480V Resolution
- Analog Inputs –
- § Composite
- § Component (3 BNC with loop through outputs)
- § Y/C
- . Blue Screen mode
- 4:3 Aspect Markers
- Built-in Tally LEDs
- V-mount plate for Battery power
- JVC exclusive 16X9, 4:3, 16:9 + 4:3 Safety Markers
- 12DV AC Power Supply with XLR cable
- · 1/4"-20 mounting plate Provides mounting LCD to NOGA arm

V-R70P-JVC Kit Contents

Contents of V-R70P-JVC

- RGB Cable
- Noga Arm
- Power supply
- Hood













VC-Y250US XLR Power Y cable (handled by JPC)

Used to supply the KA-HD250U's power to the GY-HD250U and the attached monitor. Use when 26-pin control cable is less than 70 meters.





KA-P250U

20Pin to 4pin XLR power cable

- Applies the 12v power outputted by the KA-HD250U' on its 20pin connector to an attached monitor.
- Use of this cable ensures reliable powering up of the GY-HD250U and the attached monitor.
- Should be used if the 26Pin multi core cable exceeds 70 meters





KA-V400U

Enables owners of VF-P400 to reuse their SD VF with a KA-HD250 studio adapter This cable supplies video and power to the VF-P400U from the KA-HD250U. The built in RGB matrix circuit allows the VF-P400U to display all VF functions except focus assist.





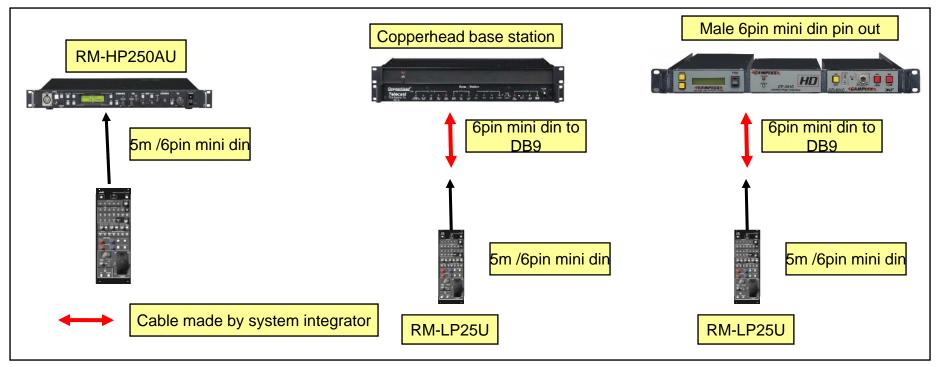
RM-LP25U

Local remote control panel with granular control of the GY-HD250U's video image. Includes a robust joystick for control of IRIS and Master Black.

To use all of the RM-LP25U's features the GY-HD250U firmware must be updated. The GY-HD250U has the proper firmware if the camcorder has a "Tally" menu. The "Tally" menu item should be on page two of the GY-HD250U's "Others" menu. If the "Tally" menus is not there the camcorder's firmware should be updated. To update the camcorder's firmware visit JVC's professional products website at http://pro.jvc.com/ Click on the support tab; then click on the firmware update link. Follow the firmware update page instructions.

Interface cable - 5m cable with mini-din male connector 9V supply voltage 2W power dissipation





RM - LP25U Interconnect Diagram



RM-HP250AU – Available Nov 2007

HD/SD 26Pin CCU – HD equivalent of the RM-HP210U with expanded capabilities: New Features

- HD/SD component outputs
- Genlock BB or HDTV Trilevel sync
- 6pin mini DIN Local remote control panel port
- Expanded Camera menu access



Accessories not included:

- 26Pin cable VC-Pxx
- Remote Control Panels RM-LP55, RM-LP57, RM-LP25, RM-LP35

Firmware Upgrade:

Firmware upgrade of GY-HD250U is required for the new camera control features introduced by the RM-HP250AU to be activated. To check if your camcorder has the required firmware visit JVC's professional products website at http://pro.jvc.com/; click on the support tab; then click on the firmware update link. Follow the firmware update page instructions.

26pin cable VC-P110U -5m VC-P112U -20m VC-P113U -50m VC-P114U -100m

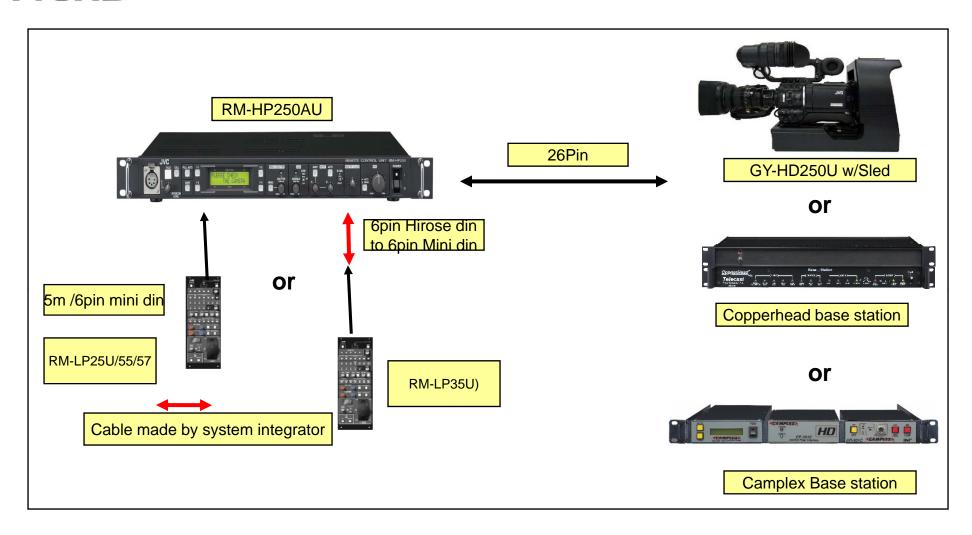


Cable Coupler KA-280U *



Max cable length with extension is 100m





RM-HP250AU Interconnect Diagram



VF-HP840U -

Color Studio View Finder - Available Jan 2008

- 8.4" 1024 X 768 resolution
- 16:9 mode 1024 X 576 pixels
- Multi Format monitor –HD/SD 60Hz/50Hz SD RGB, HD/SD CMP, Y,
- 1:1 pixel display mode
- Return video input B&W: CPS or HD Y
- PWR requirements 12V, 12W
- 20Pin Signal/Power input
- Front and rear Tally light
- Power Input XLR or 20Pin KA-HD250U VF cable

Built in:

- 1. Aspect and safety zone markers
- 2. Customizable Zebra settings
- 3. Focus assist Red, Green, Blue

Included Accessories:

- Hood
- 20Pin KA-HD250U VF cable

Additional Accessory

20Pin GY-HD250 VF cable - Model and Part Number TBA

Firmware Upgrade:

Firmware upgrade of GY-HD250U is required for the VF-HP840U return video switching and tally display to work. To check if your camcorder has the required firmware visit JVC's professional products website at http://pro.jvc.com/; click on the support tab; then click on the firmware update link. Follow the firmware update page instructions.



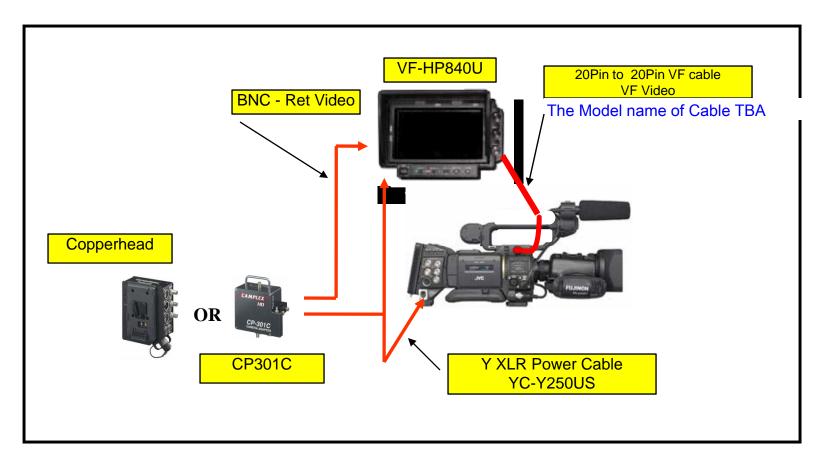






VF-HP840U and KA-HD250U Interconnect Diagram





VF-HP840U without KA-HD250U Interconnect Diagram



End

